

Carmen Johnson

Fac/Perm/Co ID #	Date	Doc ID#
92-09	6/13/08	DIN 4845



Facility Permit No: 92-09
 Part 2-Permit to Operate
 Wake County
 Permit Modification
 December 13, 2006
 Page 1 of 6

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
 Dexter R. Matthews, Director Division of Waste Management Michael F. Easley, Governor
 William G. Ross Jr., Secretary

STATE OF NORTH CAROLINA
 DEPARTMENT OF ENVIRONMENT
 AND NATURAL RESOURCES
 DIVISION OF WASTE MANAGEMENT

**MUNICIPAL SOLID WASTE LANDFILL
 FACILITY PERMIT**

WAKE COUNTY
 is hereby issued a

PERMIT TO OPERATE

A MUNICIPAL SOLID WASTE LANDFILL FACILITY

accessed via Durant Road, Raleigh, Wake County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the legal description of the site or the property map contained within the approved application.

Edward F. Mussler III
 CN = Edward F. Mussler III,
 C = US, O = Division of
 Waste Management, OU =
 Solid Waste Section
 I have reviewed this
 document and I am
 approving this document
 2006.12.13 10:54:09 -05'00'

Edward F. Mussler, III, P.E.,
 Permitting Branch Supervisor
 Permitting Branch
 Solid Waste Section

ATTACHMENT 3 Approved Documents

PART I: GENERAL FACILITY CONDITIONS

Issuance	Date
Original Issue PTO	October 19, 1984
Amendment 1 (MSWLF, YW Transfer, Intermittent HHW, Multi-Materials Drop Off)	November , 1991
Amendment 2 (PTC under new Subtitle D Rules)	October 7, 1993
Amendment 3 (Cells 1-4 and Transition Plan)	February 5, 1996
Permit Renewal (Cells 5-6)	March 31, 1998
Amendment 4 (Cells 7-11)	February 25, 1999
Amendment 5 (CDLF)	June 22, 2001

PART II: MUNICIPAL SOLID WASTE LANDFILL CONDITIONS

1. Letter with reference: *Modification of Permit No. 92-09, Wake County, North Carolina, Olver Project Number 20145.02*, dated May 19, 2006, prepared by Olver Incorporated, updating remaining airspace and operational life estimates and requesting approval of alternate daily cover (Posi-Shell).
2. *North Wake Landfill - Phase II Permit Renewal Application*, 2 Volumes, dated October 1996, amended through March 1997, prepared by Camp Dresser & McKee.
3. Drawings entitled *Facility Plan North Wake Landfill*, dated October 1996, amended through March 1997, prepared by Camp Dresser & McKee.
4. Drawings entitled *Engineering Plan North Wake Landfill*, dated October 1996, amended through March 1997, prepared by Camp Dresser & McKee.
5. Drawings entitled *Operation Plan North Wake Landfill*, dated October 1996, amended through March 1997, prepared by Camp Dresser & McKee.
6. Drawings entitled *Wake County Landfill Gas Co., LLC, Charlotte, NC.*, dated March 7, 1997, prepared by SCS Engineers.
7. *Wake County, North Carolina, Cells 1 thru 4 and Leachate Pond, North Wake Sanitary Landfill Construction Quality Assurance Report*, three volumes, dated December 1995, prepared by Camp Dresser & McKee.
8. *North Wake Sanitary Landfill Transition Plan*, dated April 1994, amended through December 1995, prepared by Camp Dresser & McKee.
9. *Wake County, North Carolina. North Wake Sanitary Landfill Construction Quality Assurance Report, Cells 5 and 6*, two volumes, dated February 1998, prepared by Camp Dresser & McKee.
10. Letter with reference: *Monitoring Well Installation, North Wake Solid Waste Management Facility*, dated February 18, 1999, prepared by Camp Dresser & McKee.
11. *Wake County, North Carolina, North Wake Sanitary Landfill Construction Quality Assurance Report, Cells 7 - 11*, 3 Volumes, dated February 1999, prepared by Camp Dresser & McKee.

PART III: CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

12. *North Wake Construction and Demolition Landfill, Construction and Demolition Debris Landfill Permit Application*, dated October 1999, prepared by Camp Dresser & McKee.
13. Letter with reference: *Monitoring Well Installation, North Wake C&D Landfill*, dated June 18, 2001, prepared by Camp Dresser & McKee.
14. Plan sheet titled *Grading / Sedimentation and Erosion Control Plan, C-1*, dated 6/14/01, prepared by Camp Dresser & McKee.

PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL CONDITIONS
(NOT APPLICABLE)

PART V: YARD WASTE CONDITIONS
(NOT APPLICABLE)

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING FACILITIES CONDITIONS
(NOT APPLICABLE)

- End of Section -

ATTACHMENT 4
Conditions of Permit to Operate

PART I: GENERAL FACILITY CONDITIONS

1. This permit shall be reviewed, pursuant to 15A NCAC 13B.0201(e), five (5) years from the issuance date of this permit to operate.
2. In the event of conflicts between this Permit to Operate and previously issued conditions, the conditions of this Permit to Operate shall supersede previously issued conditions.
3. The solid waste management units within this facility shall conform to all operating procedures described in the approved plans, 15A NCAC 13B, and the conditions specified herein.
4. Additional conditions and revision of the approved documents or changes during the operation of the landfill require approval by the North Carolina Solid Waste Section.
5. On or before August 1 of each year, the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill units to the Solid Waste Section, on forms prescribed by the Section. This report shall include the following information:
 - a. The reporting period shall be for the previous year, beginning July 1 and ending on June 30.
 - b. The annual report shall list the amount of waste received and landfilled in tons and be compiled:
 - i) On a monthly basis,
 - ii) By county, city or transfer station of origin,
 - iii) By specific waste type,
 - iv) By disposal location within the facility, and
 - v) By diversion to alternative management facilities.
 - c. A measurement of the volume utilized in the MSW cells shall be performed during the second quarter of the calendar year. The date and volume, in cubic yards, shall be included in the report.
 - d. The amount of waste, in tons, from scale records, disposed in the MSW cells since February 4, 1994 through the date of the annual volume determination.
 - e. The completed report shall be forwarded to the Regional Waste Management Specialist for the facility. A copy of the completed report shall be forwarded to the County Manager of each county from which waste was received.
6. Ground water quality at this facility is subject to the "Classifications and Water Quality Standards Applicable To The Groundwater of North Carolina", 15A NCAC 2L. This includes, but is not limited to, provisions for detection monitoring, assessment, and corrective action.

PART II: MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS

GENERAL CONDITIONS

7. This permit approves the operation of Phase 2 of the municipal solid waste landfill unit as well as the on-site environmental management and protection facilities as described in the approved plans.
8. This permit is for operational approval of a remaining disposal capacity of approximately 1,190,000 cubic yards, consistent with the final contours as shown on the approved plans. This capacity is based on an average annual disposal rate of approximately 450,000 tons (approximately 1450 tons per day based on 312 operating days per year) facility total as set forth in the approved documents.

MONITORING AND REPORTING

9. Ground water monitoring at this unit shall be as prescribed by the appropriate requirements of 15A NCAC 13B .1630-.1637 and the approved monitoring plan.
10. A readily accessible unobstructed path shall be cleared and maintained so that four-wheel drive vehicles may access monitoring locations at all times.
11. A field log book which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location shall be kept as part of the permanent facility record.
12. Records of all ground-water, surface water and leachate analytical data shall be kept as part of the permanent facility record.
13. Ground water monitoring wells and surface water sampling locations must be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.
14. Reports of the analytical data for each water quality sampling event shall be submitted to the Section within 60 days of the respective sampling event. Analytical data shall be submitted in a manner prescribed by the Section.
15. The four independent samples which comprise the initial baseline sampling event shall be collected from each ground water monitoring well and the report shall be submitted to the Section within six months after issuance of the Permit to Operate.
16. Untreated leachate shall be sampled and analyzed at least semi-annually concurrently with the ground and surface water sampling. The leachate shall be analyzed for all Appendix I constituents, pH, specific conductance, BOD and COD, phosphate, nitrate, and sulfate. Test results shall be submitted to the Section along with ground and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.

OPERATIONAL CONDITIONS

17. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
18. The use of alternative daily cover requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative daily cover approval must include a comprehensive use and demonstration for the effectiveness plan developed according to Section guidelines and consistent with the approved plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 1. Posi-Shell, used in accordance with the approved operations plan, may be utilized as an alternative to daily soil cover.
19. The use of leachate recirculation as a leachate management tool requires approval, by the Solid Waste Section, prior to implementation. Requests for leachate recirculation approval must include a comprehensive management plan developed according to Section guidelines and which is consistent with the approved operation plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 1.
20. The MSWLF unit is permitted to co-dispose of wastewater treatment sludges generated within the facility's approved service area, subject to the terms and procedures of the approved plan.
21. Closure or partial closure of any MSWLF unit shall be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans shall be submitted to the Division at least 90 days prior to implementation. Closure and Post-closure plans, including financial instruments shall be updated annually pursuant to 15A NCAC 13B .1628.

PART III: CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

22. The C&D unit has been closed.
23. Ground water and surface water sampling and analysis shall conform to the specifications found in the approved monitoring plan.

PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

PART V: YARD WASTE UNIT SPECIFIC CONDITIONS

PART VI: MISCELLANEOUS UNIT SPECIFIC CONDITIONS

- end of permit conditions -